

**Matrix of Pipe Monitoring Applications**  
 Gravity Flow, Vacuum (V), Pressure (P), and Interstitial Liquid Level Monitoring (ILLM)  
*(Enclosure to State Water Board letter dated August 25, 2006; **Matrix Updated September 14, 2006**)*

<b>Manufacturer</b>		<b>UL 971 listed pipe date stamped as being manufactured on or after July 1, 2005</b>		
<b>Brand</b>	<b>Type and Size</b> (Coaxial reported as ID of PS; SOS reported as OD of SC)	<b>Fuels</b>	<b>Open</b> (min. 5 psi rating on SC per UL)	<b>Closed</b> (min. 50 psi rating on SC per UL)
			<b>Gravity Flow or Ambient ILLM</b>	<b>Vacuum, Pressure, or Pressurized ILLM</b>
Ameron <b>Dualoy 3000/L</b>	Rigid; SOS; 3" Rigid; SOS; 4" & 6"	MV,CT,HB,AM MV,CT,HB,AM	Gravity Flow Gravity Flow	V, P None
<b>Dualoy 3000/LCX</b>	Rigid; Coaxial (sticks); 2" Rigid; Coaxial (sticks); 3" & 4"	MV,CT,HB,AM MV,CT,HB,AM	Gravity Flow, AILLM <sup>1</sup> Gravity Flow, AILLM <sup>1</sup>	V, P, PILLM <sup>1</sup> None
Environ <b>GeoFlex Plus D</b>	Flexible; Coaxial (coil); ¾", 1", 1½", 2", & 3"	MV,AM	Gravity Flow	None
Franklin Fueling/APT <b>XP-150-SC</b>	Flexible; Coaxial (coil); 1½"	MV,CT,HB,AM	Gravity Flow	V
<b>XP-100, 175, 200</b>	Flexible; Coaxial (coil); 1", 1¾", & 2"	MV,CT,HB,AM	Gravity Flow	None
NUPI <b>Smartflex</b>	Flexible; Coaxial (coil); Flexible; Coaxial (sticks);	Not Reported Not Reported	Not Reported Not Reported	Not Reported Not Reported
OPW Fueling <b>Pisces</b>	Flexible; Coaxial (coil);	Not Reported	Not Reported	Not Reported
PetroTechnik <b>UPP</b>	Flexible; Coaxial (Sticks); Flexible; Coaxial (coil);	Not Reported Not Reported	Not Reported Not Reported	Not Reported Not Reported
Smith Fibercast <b>Red Thread IIA</b>	Rigid; SOS; 3" & 4"	MV,CT,HB,AM	Gravity Flow	V, P
Western Fiberglass <b>Co-Flex</b>	Flexible; Coaxial (coil); ¾", 1", 1½", 2", & 3"	MV,AM	Gravity Flow, AILLM <sup>2</sup>	None

**"Not Reported" indicates that the SWRCB has not received the requested UL 971 reports or results of other independent testing. Therefore, we are unable to verify that piping meets the requirements of CCR, Title 23, section 2631(b) in specific applications.**

1. Use only with Ameron's Brine Filled Interstitial Space Monitoring System (limited to maximum length of 344 feet).
2. Use only with Western Fiberglass Co-Flow Hydraulic Interstitial Monitoring System (limited to maximum length of 200 feet).

#### Acronyms used in the Matrix of Pipe Monitoring Applications

Acronym	Definition
UL	Underwriters Laboratories Inc.
ID	Internal Diameter
OD	Outside Diameter
SOS	Size over Size
SC	Secondary Containment
V	Vacuum
P	Pressure
ILLM	Interstitial Liquid Level Monitoring
AILLM	Ambient Liquid Level Monitoring
PILLM	Pressurized Liquid Level Monitoring
MV	Motor Vehicle
CT	Concentrated
HB	High Blend
AM	Aviation & Marine